Customer No.: 23456

COMPLETE LISTING OF CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Please cancel claims 2, 3 and 7-9.

1-12. (canceled)

13. (previously presented): A digital guitar, comprising:

a guitar body;

guitar strings mounted on the guitar body;

a guitar pickup assembly mounted on the guitar body adjacent to the guitar strings;

a guitar digital output assembly;

a digital guitar processing circuit connected to the guitar pickup assembly and the guitar digital output assembly being connected to the digital guitar processing circuit, the digital guitar processing circuit including:

i. a guitar analog/digital converter circuit connected to the guitar pickup assembly and the guitar digital output assembly;

ii. a guitar digital communication circuit connected between the guitar analog/digital converter circuit and the guitar digital output assembly; and

iii. a guitar mixing circuit connected between the guitar analog/digital converter circuit and the guitar pickup assembly, wherein the guitar mixing circuit includes a summing circuit and a subtracting circuit, both of which

Customer No.: 23456

are connected to the guitar pickup assembly, and a combining circuit connected to

the summing and subtracting circuits and the guitar analog/digital converter

circuit.

14. (original): The digital guitar of claim 13, wherein the guitar mixing circuit

includes a noise subtracting circuit connected to the guitar pickup assembly and

between the summing circuit and the combining circuit.

15-18. (canceled)

19. (previously presented): A digital guitar, comprising:

a guitar body;

guitar strings mounted on the guitar body;

a guitar pickup assembly mounted on the guitar body adjacent to the

guitar strings;

a guitar digital output assembly;

a digital guitar processing circuit connected to the guitar pickup

assembly and the guitar digital output assembly being connected to the digital

guitar processing circuit, the digital guitar processing circuit including:

i. a guitar analog/digital converter circuit connected to the guitar

pickup assembly and the guitar digital output assembly; and

Customer No.: 23456

ii. a guitar digital communication circuit connected between the

guitar analog/digital converter circuit and the guitar digital output assembly,

wherein the guitar digital communication circuit includes an Ethernet interface.

20. (previously presented): A digital guitar, comprising:

a guitar body;

guitar strings mounted on the guitar body;

a guitar pickup assembly mounted on the guitar body adjacent to the

guitar strings;

a guitar digital output assembly;

a digital guitar processing circuit connected to the guitar pickup

assembly and the guitar digital output assembly being connected to the digital

guitar processing circuit, the digital guitar processing circuit including:

i. a guitar analog/digital converter circuit connected to the guitar

pickup assembly and the guitar digital output assembly; and

ii. a guitar digital communication circuit connected between the

guitar analog/digital converter circuit and the guitar digital output assembly,

wherein the guitar digital communication circuit includes a MaGIC chip.

21. (previously presented): A digital guitar, comprising:

a guitar body;

guitar strings mounted on the guitar body;

Customer No.: 23456

a guitar pickup assembly mounted on the guitar body adjacent to the

guitar strings;

a guitar digital output assembly;

a digital guitar processing circuit connected to the guitar pickup

assembly and the guitar digital output assembly being connected to the digital

guitar processing circuit, the digital guitar processing circuit including:

i. a guitar analog/digital converter circuit connected to the guitar

pickup assembly and the guitar digital output assembly; and

ii. a guitar digital communication circuit connected between the

guitar analog/digital converter circuit and the guitar digital output assembly,

wherein the guitar digital communication circuit includes an I2S Engine and sync.

22. (original): The digital guitar of claim 21, wherein the I2S Engine and sync

includes a field programmable gate array.

23. (canceled)

24. (previously presented): A digital guitar, comprising:

a guitar body;

guitar strings mounted on the guitar body;

a guitar pickup assembly mounted on the guitar body adjacent to the

guitar strings;

Customer No.: 23456

a digital guitar processing circuit connected to the guitar pickup

assembly;

a guitar digital output assembly connected to the digital guitar

processing circuit; and

a guitar digital input assembly connected to the digital guitar

processing circuit; and

the guitar digital output assembly and guitar digital input assembly

are integrated together into a single guitar digital input/output assembly.

25. (original): The digital guitar of claim 24, wherein the guitar digital input/output

assembly includes an RJ-45 connector.

26. (previously presented): A digital guitar, comprising:

a guitar body;

guitar strings mounted on the guitar body;

a guitar pickup assembly mounted on the guitar body adjacent to the

guitar strings;

a digital guitar processing circuit connected to the guitar pickup

assembly;

a guitar digital output assembly connected to the digital guitar

processing circuit; and

a guitar analog input/output assembly.

Customer No.: 23456

27-28. (canceled)

29. (previously presented): A guitar, comprising:

a guitar body;

a plurality of guitar strings mounted on the guitar body;

a pickup mounted on the body under the strings, the pickup generating at

least one analog electrical string signal corresponding to vibration of the strings;

an analog to digital converter circuit mounted on the guitar, and operably

associated with the pickup, for converting the analog electrical string signal to a

digital electrical string signal;

a digital output connector, mounted on the guitar, for outputting the digital

electrical string signal;

wherein

the pickup generates at least one analog electrical string signal for each

string of the plurality of strings so that a plurality of analog electrical string signals

is generated;

the analog to digital converter circuit converts the plurality of analog

electrical string signals into a plurality of corresponding digital electrical string

signals; and

the output connector outputs the plurality of digital electrical string signals.

30. (previously presented): A guitar, comprising:

a guitar body;

Customer No.: 23456

a plurality of guitar strings mounted on the guitar body;

a pickup mounted on the body under the strings, the pickup generating at

least one analog electrical string signal corresponding to vibration of the strings;

an analog to digital converter circuit mounted on the guitar, and operably

associated with the pickup, for converting the analog electrical string signal to a

digital electrical string signal;

a digital output connector, mounted on the guitar, for outputting the digital

electrical string signal; and

wherein the analog to digital converter circuit formats the digital electrical

string signal in a MaGIC communication protocol format.

31-32. (canceled)

33. (previously presented): A guitar, comprising:

a guitar body;

a plurality of guitar strings mounted on the guitar body;

a pickup mounted on the body under the strings, the pickup generating

at least one analog electrical string signal corresponding to vibration of the strings;

an analog to digital converter circuit mounted on the guitar, and

operably associated with the pickup, for converting the analog electrical string

signal to a digital electrical string signal;

a digital output connector, mounted on the guitar, for outputting the

digital electrical string signal;

Customer No.: 23456

wherein

the pickup is a first pickup which generates at least one analog

electrical string signal for each string; and

the guitar further includes:

a second pickup which generates one blended analog string signal

corresponding to vibration of all of the strings; and

an analog output connector, mounted on the guitar, for outputting the

blended analog string signal.

34. (original) The guitar of claim 33, further comprising:

a volume control and a tone control, operatively associated with the analog to

digital converter circuit, so that both the blended analog string signal and the

digital electrical string signal can be modified by the volume control and the tone

control.

35-37. (canceled)

38. (previously presented): A guitar, comprising:

an audio transducer assembly adapted to generate a predetermined number

of analog string signals representative of string vibrations of guitar strings mounted

on the guitar when the guitar strings are strummed;

a guitar processing circuit in communication with the audio transducer

assembly, the guitar processing circuit adapted to generate a predetermined

Filed: September 8, 2003

Customer No.: 23456

number of digital string signals based on the analog string signals and to format the

digital string signals generated by the processing circuit to be compatible with a

predetermined number of digital communication protocols, wherein the guitar

processing circuit is adapted to format the digital string signals to be compatible

with a single digital communication protocol; and

a guitar output assembly in communication with the guitar processing circuit

and adapted to output the digital string signals generated by the guitar processing

circuit.

39. (previously presented): A guitar, comprising:

an audio transducer assembly adapted to generate a predetermined number

of analog string signals representative of string vibrations of guitar strings mounted

on the guitar when the guitar strings are strummed;

a guitar processing circuit in communication with the audio transducer

assembly, the guitar processing circuit adapted to generate a predetermined

number of digital string signals based on the analog string signals and to format the

digital string signals generated by the processing circuit to be compatible with a

predetermined number of digital communication protocols, wherein the guitar

processing circuit is adapted to format the digital string signals to be compatible

with a MaGIC digital communication protocol; and

a guitar output assembly in communication with the guitar processing circuit

and adapted to output the digital string signals generated by the guitar processing

circuit.

Customer No.: 23456

40. (previously presented): A guitar, comprising:

an audio transducer assembly adapted to generate a predetermined number

of analog string signals representative of string vibrations of guitar strings mounted

on the guitar when the guitar strings are strummed;

a guitar processing circuit in communication with the audio transducer

assembly, the guitar processing circuit adapted to generate a predetermined

number of digital string signals based on the analog string signals and to format the

digital string signals generated by the processing circuit to be compatible with a

predetermined number of digital communication protocols, wherein the guitar

processing circuit is adapted to format the digital string signals to be compatible

with multiple different digital communication protocols; and

a guitar output assembly in communication with the guitar processing circuit

and adapted to output the digital string signals generated by the guitar processing

circuit.

41. (previously presented): A guitar, comprising:

an audio transducer assembly adapted to generate a predetermined number

of analog string signals representative of string vibrations of guitar strings mounted

on the guitar when the guitar strings are strummed;

a guitar processing circuit in communication with the audio transducer

assembly, the guitar processing circuit adapted to generate a predetermined

number of digital string signals based on the analog string signals and to format the

Customer No.: 23456

digital string signals generated by the processing circuit to be compatible with a

predetermined number of digital communication protocols, wherein the guitar

processing circuit is adapted to format the digital string signals to be compatible

with a MaGIC digital communication protocol and a Musical Instrument Digital

Interface digital communication protocol; and

a guitar output assembly in communication with the guitar processing circuit

and adapted to output the digital string signals generated by the guitar processing

circuit.

42. (previously presented): A guitar, comprising:

an audio transducer assembly adapted to generate a predetermined number

of analog string signals representative of string vibrations of guitar strings mounted

on the guitar when the guitar strings are strummed;

a guitar processing circuit in communication with the audio transducer

assembly, the guitar processing circuit adapted to generate a predetermined

number of digital string signals based on the analog string signals and to format the

digital string signals generated by the processing circuit to be compatible with a

predetermined number of digital communication protocols; and

a guitar output assembly in communication with the guitar processing circuit

and adapted to output the digital string signals generated by the guitar processing

circuit wherein the guitar output assembly includes an RJ-45 connector.

43. (previously presented): A guitar, comprising:

Customer No.: 23456

an audio transducer assembly adapted to generate a predetermined number

of analog string signals representative of string vibrations of guitar strings mounted

on the guitar when the guitar strings are strummed;

a guitar processing circuit in communication with the audio transducer

assembly, the guitar processing circuit adapted to generate a predetermined

number of digital string signals based on the analog string signals and to format the

digital string signals generated by the processing circuit to be compatible with a

predetermined number of digital communication protocols;

a guitar output assembly in communication with the guitar processing circuit

and adapted to output the digital string signals generated by the guitar processing

circuit;

a guitar input assembly adapted to receive and transmit a predetermined

number of external analog signals to the guitar processing circuit for processing;

and

wherein

the guitar processing circuit is further adapted to generate a predetermined

number of external digital signals based on the external analog signals and to

format the external digital signals to be compatible with the predetermined number

of digital communication protocols; and

the guitar output assembly is further adapted to output the external digital

signals.

Customer No.: 23456

44. (previously presented): A guitar, comprising:

an audio transducer assembly adapted to generate a predetermined number

of analog string signals representative of string vibrations of guitar strings mounted

on the guitar when the guitar strings are strummed;

a guitar processing circuit in communication with the audio transducer

assembly, the guitar processing circuit adapted to generate a predetermined

number of digital string signals based on the analog string signals and to format the

digital string signals generated by the processing circuit to be compatible with a

predetermined number of digital communication protocols:

a guitar output assembly in communication with the guitar processing circuit

and adapted to output the digital string signals generated by the guitar processing

circuit;

a guitar input assembly adapted to receive and transmit an analog microphone

signal to the guitar processing circuit for processing; and

wherein

the guitar processing circuit is further adapted to generate a digital microphone

signal based on the analog microphone signal and to format the digital microphone

signal to be compatible with the predetermined number of digital communication

protocols; and

the guitar output assembly is further adapted to output the digital microphone

signal.

Customer No.: 23456

45. (canceled)

46. (previously presented): A guitar, comprising:

an audio transducer assembly adapted to generate a predetermined number

of analog string signals representative of string vibrations of guitar strings mounted

on the guitar when the guitar strings are strummed;

a guitar processing circuit in communication with the audio transducer

assembly, the guitar processing circuit adapted to generate a predetermined

number of digital string signals based on the analog string signals and to format the

digital string signals generated by the processing circuit to be compatible with a

predetermined number of digital communication protocols;

a guitar output assembly in communication with the guitar processing circuit

and adapted to output the digital string signals generated by the guitar processing

circuit;

a guitar input assembly adapted to receive and transmit a predetermined

number of external digital signals to the guitar processing circuit for processing;

and

wherein

the guitar processing circuit is further adapted to generate a predetermined

number of external analog signals based on the external digital signals; and

the guitar output assembly is further adapted to output the external analog

signals.

Filed: September 8, 2003

Customer No.: 23456

47. (previously presented): A guitar, comprising:

an audio transducer assembly adapted to generate a predetermined number

of analog string signals representative of string vibrations of guitar strings mounted

on the guitar when the guitar strings are strummed;

a guitar processing circuit in communication with the audio transducer

assembly, the guitar processing circuit adapted to generate a predetermined

number of digital string signals based on the analog string signals and to format the

digital string signals generated by the processing circuit to be compatible with a

predetermined number of digital communication protocols:

a guitar output assembly in communication with the guitar processing circuit

and adapted to output the digital string signals generated by the guitar processing

circuit;

a guitar control assembly adapted to generate and transmit a predetermined

number of analog control signals to the guitar processing circuit for processing; and

wherein

the guitar processing circuit is further adapted to generate a predetermined

number of digital control signals based on the analog control signals and to format

the digital control signals to be compatible with the predetermined number of

digital communication protocols; and

the guitar output assembly is further adapted to output the digital control

signals.

Customer No.: 23456

48. (previously presented): A guitar, comprising:

an audio transducer assembly adapted to generate a predetermined number

of analog string signals representative of string vibrations of guitar strings mounted

on the guitar when the guitar strings are strummed:

a guitar processing circuit in communication with the audio transducer

assembly, the guitar processing circuit adapted to generate a predetermined

number of digital string signals based on the analog string signals and to format the

digital string signals generated by the processing circuit to be compatible with a

predetermined number of digital communication protocols;

a guitar output assembly in communication with the guitar processing circuit

and adapted to output the digital string signals generated by the guitar processing

circuit;

wherein

the audio transducer assembly is further adapted to generate a

predetermined number of analog noise signals representative of noise in one or

more of the predetermined number of analog string signals; and

the guitar processing circuit is further adapted to generate the

predetermined number of digital string signals based on the analog noise and string

signals.

49. (canceled)

Customer No.: 23456

50. (previously presented): A guitar, comprising:

an audio transducer assembly adapted to generate a predetermined number

of analog string signals representative of string vibrations of guitar strings mounted

on the guitar when the guitar strings are strummed;

a guitar processing circuit in communication with the audio transducer

assembly, the guitar processing circuit adapted to generate a predetermined

number of digital string signals based on the analog string signals and to format the

digital string signals generated by the processing circuit to be compatible with a

predetermined number of digital communication protocols:

a guitar output assembly in communication with the guitar processing circuit

and adapted to output the digital string signals generated by the guitar processing

circuit;

wherein

the audio transducer assembly is adapted to generate a separate analog

string signal for each guitar string that is strummed:

the guitar processing circuit is adapted to convert the separate analog string

signals into separate digital string signals and to format the separate digital string

signals to be compatible with the predetermined number of digital communication

protocols; and

the guitar output assembly is adapted to output the separate digital string

signals.

Customer No.: 23456

51. (previously presented): A guitar, comprising:

an audio transducer assembly adapted to generate a predetermined number

of analog string signals representative of string vibrations of guitar strings mounted

on the guitar when the guitar strings are strummed;

a guitar processing circuit in communication with the audio transducer

assembly, the guitar processing circuit adapted to generate a predetermined

number of digital string signals based on the analog string signals and to format the

digital string signals generated by the processing circuit to be compatible with a

predetermined number of digital communication protocols;

a guitar output assembly in communication with the guitar processing circuit

and adapted to output the digital string signals generated by the guitar processing

circuit;

wherein

the audio transducer assembly is adapted to generate a separate analog

string signal for each guitar string that is strummed:

the guitar processing circuit is adapted to process the separate analog string

signals to generate a predetermined number of processed analog string signals,

convert the processed analog string signals into processed digital string signals, and

to format the processed digital string signals to be compatible with the

predetermined number of digital communication protocols; and

the guitar output assembly is adapted to output the processed digital string

signals.

Filed: September 8, 2003

Customer No.: 23456

52. (previously presented): A guitar, comprising:

an audio transducer assembly adapted to generate a predetermined number

of analog string signals representative of string vibrations of guitar strings mounted

on the guitar when the guitar strings are strummed:

a guitar processing circuit in communication with the audio transducer

assembly, the guitar processing circuit adapted to generate a predetermined

number of digital string signals based on the analog string signals and to format the

digital string signals generated by the processing circuit to be compatible with a

predetermined number of digital communication protocols;

a guitar output assembly in communication with the guitar processing circuit

and adapted to output the digital string signals generated by the guitar processing

circuit;

wherein

the audio transducer assembly is adapted to generate a separate analog

string signal for each guitar string that is strummed;

the guitar processing circuit is adapted to convert the separate analog string

signals into separate digital string signals, to process the separate digital string

signals to generate a predetermined number of processed digital string signals, and

to format the processed digital string signals to be compatible with the

predetermined number of digital communication protocols; and

Filed: September 8, 2003

Customer No.: 23456

the guitar output assembly is adapted to output the processed digital string

signals.

53. (previously presented): A guitar, comprising:

an audio transducer assembly adapted to generate a predetermined number

of analog string signals representative of string vibrations of guitar strings mounted

on the guitar when the guitar strings are strummed;

a guitar processing circuit in communication with the audio transducer

assembly, the guitar processing circuit adapted to generate a predetermined

number of digital string signals based on the analog string signals and to format the

digital string signals generated by the processing circuit to be compatible with a

predetermined number of digital communication protocols;

a guitar output assembly in communication with the guitar processing circuit

and adapted to output the digital string signals generated by the guitar processing

circuit;

wherein

the audio transducer assembly is adapted to generate a separate analog

string signal for each guitar string that is strummed;

the guitar processing circuit is adapted to combine the separate analog string

signals to generate a single analog string signal, convert the single analog string

signal into a single digital string signal, and to format the single digital string

Customer No.: 23456

signal to be compatible with the predetermined number of digital communication

protocols; and

the guitar output assembly is adapted to output the single digital string signal.

54. (previously presented): A guitar, comprising:

an audio transducer assembly adapted to generate a predetermined number

of analog string signals representative of string vibrations of guitar strings mounted

on the guitar when the guitar strings are strummed;

a guitar processing circuit in communication with the audio transducer

assembly, the guitar processing circuit adapted to generate a predetermined

number of digital string signals based on the analog string signals and to format the

digital string signals generated by the processing circuit to be compatible with a

predetermined number of digital communication protocols;

a guitar output assembly in communication with the guitar processing circuit

and adapted to output the digital string signals generated by the guitar processing

circuit;

wherein

the audio transducer assembly is adapted to generate a separate analog

string signal for each guitar string that is strummed;

the guitar processing circuit is adapted to combine two or more of the

separate analog string signals to generate a predetermined number of combined

analog string signals, convert the combined analog string signals into a combined

Filed: September 8, 2003

Customer No.: 23456

digital string signals, and to format the combined digital string signals to be

compatible with the predetermined number of digital communication protocols; and

the guitar output assembly is adapted to output the combined digital string

signals.

55. (previously presented): A guitar, comprising:

an audio transducer assembly adapted to generate a predetermined number

of analog string signals representative of string vibrations of guitar strings mounted

on the guitar when the guitar strings are strummed;

a guitar processing circuit in communication with the audio transducer

assembly, the guitar processing circuit adapted to generate a predetermined

number of digital string signals based on the analog string signals and to format the

digital string signals generated by the processing circuit to be compatible with a

predetermined number of digital communication protocols;

a guitar output assembly in communication with the guitar processing circuit

and adapted to output the digital string signals generated by the guitar processing

circuit;

wherein

the audio transducer assembly is adapted to generate two or more separate

analog string signals for each guitar string that is strummed;

the guitar processing circuit is adapted to convert the separate analog string

signals for each guitar string into separate digital string signals for each guitar

Filed: September 8, 2003

Customer No.: 23456

string and to format the separate digital string signals to be compatible with the

predetermined number of digital communication protocols; and

the guitar output assembly is adapted to output the separate digital string

signals for each guitar string.

56. (previously presented): A guitar, comprising:

an audio transducer assembly adapted to generate a predetermined number

of analog string signals representative of string vibrations of guitar strings mounted

on the guitar when the guitar strings are strummed;

a guitar processing circuit in communication with the audio transducer

assembly, the guitar processing circuit adapted to generate a predetermined

number of digital string signals based on the analog string signals and to format the

digital string signals generated by the processing circuit to be compatible with a

predetermined number of digital communication protocols;

a guitar output assembly in communication with the guitar processing circuit

and adapted to output the digital string signals generated by the guitar processing

circuit;

wherein

the audio transducer assembly is adapted to generate two or more separate

analog string signals for each guitar string that is strummed;

the guitar processing circuit is adapted to convert the separate analog string

signals for each guitar string into a single combined digital string signal for each

Filed: September 8, 2003 Customer No.: 23456

guitar string and to format the single combined digital string signal for each string

to be compatible with the predetermined number of digital communication

protocols; and

the guitar output assembly is adapted to output the single combined digital

string signal for each guitar string.

57. (previously presented): A guitar, comprising:

an audio transducer assembly adapted to generate a predetermined number

of analog string signals representative of string vibrations of guitar strings mounted

on the guitar when the guitar strings are strummed;

a guitar processing circuit in communication with the audio transducer

assembly, the guitar processing circuit adapted to generate a predetermined

number of digital string signals based on the analog string signals and to format the

digital string signals generated by the processing circuit to be compatible with a

predetermined number of digital communication protocols:

a guitar output assembly in communication with the guitar processing circuit

and adapted to output the digital string signals generated by the guitar processing

circuit;

wherein

the audio transducer assembly is adapted to generate two or more separate

analog string signals for each guitar string that is strummed;

Customer No.: 23456

the guitar processing circuit is adapted to generate an analog x-plane string

signal and an analog y-plane string signal for each guitar string based on the

separate analog string signals for each guitar string, convert the analog x-plane and

y-plane string signals for each guitar string into digital x-plane and y-plane string

signals for each guitar string, and to format the digital x-plane and y-plane string

signals for each string to be compatible with the predetermined number of digital

communication protocols; and

the guitar output assembly is adapted to output the digital x-plane and y-plane

string signals for each guitar string.

58. (previously presented): A guitar, comprising:

an audio transducer assembly adapted to generate a predetermined number

of analog string signals representative of string vibrations of guitar strings mounted

on the guitar when the guitar strings are strummed;

a guitar processing circuit in communication with the audio transducer

assembly, the guitar processing circuit adapted to generate a predetermined

number of digital string signals based on the analog string signals and to format the

digital string signals generated by the processing circuit to be compatible with a

predetermined number of digital communication protocols;

a guitar output assembly in communication with the guitar processing circuit

and adapted to output the digital string signals generated by the guitar processing

circuit;

wherein

Customer No.: 23456

the audio transducer assembly is adapted to generate two or more separate

analog string signals for each guitar string that is strummed;

the guitar processing circuit is adapted to:

generate an analog x-plane string signal and an analog y-plane string

signal for each guitar string based on the separate analog string signals for

each guitar string,

combine the analog x-plane and y-plane string signals for each guitar

string to generate a single combined string signal for each guitar string;

convert the single combined string signal for each guitar string into a

single digital combined string signal for each guitar string, and

format the single combined string signal for each string to be

compatible with the predetermined number of digital communication

protocols; and

the guitar output assembly is adapted to output the single combined

string signal for each guitar string.

59. (original): A retrofit method for converting a guitar from an analog guitar into a

digital guitar, said method comprising the steps of:

(a) removing an analog output assembly from an analog guitar;

(b) inserting and mounting a digital guitar processing circuit inside the

analog guitar;

Customer No.: 23456

(c) connecting the digital guitar processing circuit to a guitar pickup

assembly of the analog guitar;

(d) connecting the digital guitar processing circuit to a digital output

assembly; and

(e) mounting the digital output assembly on the analog guitar.

60. (original): The method of claim 59, wherein step (e) occurs prior to step (d).

61. (original): A retrofit method for converting a guitar from an analog guitar into

a digital guitar, said method comprising the steps of:

(a) inserting and mounting a digital guitar processing circuit inside the

analog guitar;

(b) connecting the digital guitar processing circuit to a guitar pickup

assembly of the analog guitar;

(c) connecting the digital guitar processing circuit to a digital output

assembly; and

(d) mounting the digital output assembly on the analog guitar.